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Total Number of Pages in This Submission

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Application Number

10/821761

Filing Date

First Named Inventor

Sharon Ann Hayes

Art Unit

Examiner Name

Attorney Docket Number

ENCLOSURES (Check all that apply)

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Request to Make Special

Application #10/821761

Real-Time Security Alert & Connectivity System for Real-Time Capable Wireless Cellphones and Palm/Hand-held Wireless Apparatus

Statement Regarding Invention

A request for special status is based on this invention's ability to facilitate the immediate security needs of the general public. This design turns over control of the user's home-based surveillance system to the user while they're away via his/her real-time capable cellular or palm/hand-held device. Whether user is mobile, at work, or attending an outing they have full surveillance control and tracking capabilities inside their home and/or throughout their property via their hand-held device.

Ongoing changes in how home security is being handled puts more responsibility on homeowners to protect their own valuables. In parts of the United States, an increase in user-error burglar alerts have prompted officials to pass laws that give police the option to respond or not to respond to a burglar alarm. Should a real thief be in progress, the homeowner's valuables are gone.

With an ever-growing increase in home-thief, and parents' concern for the safety of their latchkey children, the urgency of this invention is evident. Knowing he/she is being watched can send an unauthorized intruder running. Also, the invention's *send-record trigger makes it an important tool in prosecuting such cases.

Of course, real-time notification of unauthorized entry has been available for years, but this method of surveillance is highly limited due to its lack of flexibility, meaning a centralized back-end system has to be manned. An effective yet costly prospect. This invention offers a more practical alternative for the mass public, because it travels over Wi-Fi, VoIP, seamless roaming and other real-time carrier-type systems, feeding real-time images directly into the users' real-time capable cellular or palm/hand-held device.

There is also a material aspect to this invention, and that is "peace of mind." Knowing they can have better control over protecting family and property would be of paramount importance to the mass population.

The invention is designed to 1) initiate a call to the user immediately upon alert of unauthorized entry, 2) facilitate real-time viewing over real-time capable portable devices, and 3) give users full maneuvering capabilities of their at-home security cameras, monitors and speakers from their hand-held device. The design of the invention also allows users to communicate with intruder, as well as the option to *send intruder's image to a centralized security database.

Thank you for your review of this request. Please advise if additional information is required.

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PRE-EXAMINATION SEARCH

United States Patent

6,698,021

Amini, et al.

February 24, 2004

System and method for remote control of surveillance devices.

Abstract

A system and method for enabling real-time off-site video image storage is disclosed. An off-site storage site is coupled to camera servers at client sites via a private network. Each camera server is further coupled to one or more surveillance cameras. Video images captured by cameras located at the client sites are forwarded to an off-site server via a camera server. Video images received by the off-site server are produced for live viewing and/or archived in an image database. Users can retrieve live or archived video images through a client workstation that communicates with the off-site server over the public Internet. Retrieval of video images is based on a web-browser interface. Live viewing of video images is supplemented by real-time camera control functions that alter the pan-tilt-zoom (PTZ) position of the camera producing the live images. Commands for controlling the PTZ camera are encoded by the client workstation and transmitted to the off-site server. The off-site server converts the camera control codes into control strings that are recognizable by the particular camera.

U.S. Patent Documents

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Foreign Patent Documents

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WO A 9707486	Feb., 1997	WO.

United States Patent

6,559,769

Anthony , et al.

May 6, 2003

Early warning real-time security system.

Abstract

An early-warning security system for monitoring and tracking in real-time the activities and movements associated with prescribed personnel, personal property, mobile vehicles, and buildings. The system comprises a plurality of in situ local controllers having a microprocessor and a coordinated plurality of conspicuous and clandestine digital video cameras for continuously producing digital audio and visual signals, uplinking such signals via a suitable wireless telecommunications device to a satellite, general packet radio service, the Internet, intranet or extranet, and then downlinking these signals to a plurality of control centers for recording and analysis thereof. Uplinking of these digital signals may occur continuously or may be activated by a manual or predefined trigger event. Preventative or remedial action is immediately taken when perturbations from normal behavior or activities are observed in the recorded audio and visual signals.

United States Patent Documents

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United States Patent

6,697,378

Patel

February 24, 2004

Method and apparatus for class based transmission control of data connections based on real-time external feedback estimates obtained using messaging from a wireless network

Abstract

A system of wireless network with capabilities of transporting data packets, wherein the data transmission activity of each data connection is determined using the localized air interface capacity threshold and available bandwidth estimates obtained via the messages sent by the wireless network (FIG. 3). The system provides a unique and efficient way of providing control over data packet transmissions over a wireless network. The localized wireless network capacity threshold and available bandwidth estimates are obtained via use of empirical formulae and are improved upon via the use of messaging obtained from the wireless network by the Bandwidth Estimator (302) (FIG. 5 and 6). The data transmission activity factors of all data connections are determined by the Bandwidth Estimator using the localized capacity threshold and available bandwidth estimates, along with the priority/class of traffic of specific data calls (FIG. 7). The data transmission activity factors are implemented using the transmission window size update and local queuing by the Data Controller (300) (FIG. 8). Various implementations and interconnectivities of the Bandwidth Estimator and Data Controller functions are outlined (FIGS. 9-13).

**United States Patent
6,680,922
Jorgensen
January 20, 2004**

Method for the recognition and operation of virtual private networks (VPNs) over a wireless point to multi-point (PtMP) transmission system

Abstract

A packet-centric wireless point to multi-point telecommunications system includes a wireless base station coupled to a first data network; one or more host workstations coupled to the first data network; one or more subscriber customer premise equipment (CPE) stations in wireless communication with the wireless base station over a shared wireless bandwidth using a packet-centric protocol; and one or more subscriber workstations coupled to each of the subscriber CPE stations over a second network; resource allocator optimizing end-user quality of service (QoS) and allocating shared bandwidth among the subscriber CPE stations; a scheduler to schedule an internet protocol (IP) flow over the shared wireless bandwidth. The scheduler includes a prioritizer for prioritizing the IP flow based on priorities of a virtual private network (VPN). The system can include an analyzer for analyzing the virtual private network (VPN) priorities for the IP flow, or for prioritizing all VPN IP flows. The system can include a prioritizer to prioritize the IP flow based on one or more subscriber-defined parameters. In the system, the VPN can include a directory enabled networking (DEN) table management scheme. The VPN can be implemented using a point-to-point tunneling protocol (PPTP). Also included is a method for accomplishing the above.

United States Patent

4,536,856

Hiroishi

August 20, 1985

Method of and apparatus for controlling the display of video signal information

Abstract

A video signal display control method and apparatus provide the display control functions for LCD-type or other similar display devices to be attached as output display units to an external microcomputer or other control systems that provide output video signals. The display controller contains computer program codes for processing the output video signals and permitting video signal information to be presented on a scaled-up size, on a scaled-down size, or as a partially extracted information on the physical screen of the display devices. The limitations on the performance of the external microcomputer imposed by the inherent performance of the display devices have thus been eliminated, allowing for the optimum use of the microcomputer performance.

Other References

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